

OGUZ TECIRLIOGLU

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EDUCATION

University of Manchester | **BEng (Hons) Aerospace Engineering** | **First-Class Honours** expected

Modules: Fluid Mechanics (75%), Structures 1 (79%), Elec. Supply & Circuits (72%), Mod & Sim2 (72%)

Projects:

- **Modelling & Simulation:**
Built a 2 & 3 dimensional counterflow heat exchanger in **ANSYS** to find necessary length. Simulated temperature variations and calculated complex truss bending moments, plotting displacements & forces using **MATLAB**.
- **GitHub Open Source Projects:**
I **contribute** to open source projects on GitHub, trying to work on open issues regarding **JavaScript**.
- **Tools for Engineers:**
Used CAD (**SOLIDWORKS**) to design various parts, such as a coupling housing.
- **Data Acquisition & Experimental Methods:**
Used **LabVIEW** to program a XY plotter with inductive proximity sensor to measure an area and produce the resultant “image” of the whole area in a team. Gained experience in **visual programming and enhanced critical reasoning skills** while designing and implementing a real-world application.
- **Aircraft Design**
Proposed design for civil airliner that met market requirements.
Made compromises between physical constraints, market constraints and aviation regulations.
Created an **automatic flight envelope plotter**, given aircraft specifications.

Bilkent Laboratories and International School | **89% Overall** | High Honours Certificate on all years

- Completed the **International Baccalaureate:**
Higher Level: **Mathematics with Calculus (6/7), Physics (6/7) and Economics (7/7)**.

WORK & EXPERIENCE

Japan Tobacco International (JTI) (5 weeks) - **Quality Assurance Intern** Aug - Sept 2019

- Collected samples from each machine, analysed them and worked on a project that searched for production errors machines made and pinpointed the cause.
- **Learned to work under pressure** and the benefit of an enthusiastic outlook in the working environment and connecting with other co-workers.

TECHNICAL SKILLS

- Languages: **JavaScript, HTML & CSS**, learning **Java, MATLAB, MySQL**
- Frameworks: **Node.js, TensorFlow.js, React.js, Bootstrap CSS**.
- Tools: **GitHub**, Microsoft Office(Excel, Access), **Visual Studio, LabVIEW, Git**.
- CAD & Simulation: **SOLIDWORKS, ANSYS, ABAQUS, Fluent CFD Package**.

INTERESTS

MACE UAV Society

- Gained experience building & designing UAV's in a team. Also worked on adding new control surfaces to R/C aircraft, such as “Flaperons” or “Spoilers”.

Model United Nations (MUN)

- Improved public speaking and debating skills, as well as learning to quickly brainstorm for a solution.

Varsity Basketball Team

- **Captain** of the team in senior year.

Other Interests:

Physics (Cosmology & Quantum Physics), Rowing, Windsurfing, Powerlifting:

Languages: Turkish (Fluent), English (Fluent TOEFL 109/120), Spanish (DELE A2), Serbian (Beginner).